

HISTORIC AMERICAN ENGINEERING RECORD

HAER  
MASS,  
9-WALTH,  
4-

Index to Photographs

Boston Manufacturing Company  
144-190 Moody Street  
Waltham, Middlesex County, Massachusetts

HAER No. MA-54

Steve Dunwell, Photographer, 1979

- MA-54-1 PANORAMIC VIEW OF MILLS LOOKING NORTHWEST FROM ROOF OF APARTMENT BUILDING ACROSS THE CHARLES RIVER.
- MA-54-2 PANORAMIC VIEW OF MILLS LOOKING NORTHEAST FROM ROOF OF APARTMENT BUILDING ACROSS THE CHARLES RIVER.
- MA-54-3 VIEW OF MILLS LOOKING NORTHWEST. FIREWALLS PROTRUDING ABOVE ROOF TO LEFT OF TOILET TOWER INDICATE THREE SEGMENTS OF THE ORIGINAL WING BELOW ADDED TOP FLOOR: LEFT IS 1814 MILL, CENTER IS 1843 CONNECTOR, RIGHT IS 1816 MILL. TOILET TOWER AND BUILDING TO ITS RIGHT ARE PART OF 1852 WING.
- MA-54-4 VIEW OF MILLS LOOKING NORTHEAST. LEFT OF CENTER IS 1852 WING. RIGHT CENTER IS 1873 WING. TRESTLE FOR WATERTOWN BRANCH RAILWAY (1851) TO RIGHT OF 1911 STACK. ONE STORY BUILDING AT CENTER, DEMOLISHED DURING REHABILITATION, WAS CUT DOWN FROM THREE-STORY 1873 BOILERHOUSE.
- MA-54-5 FIRST WING COMPRISED OF 1814 MILL (LEFT), 1843 CONNECTOR (CENTER), AND 1816 MILL (RIGHT), SEEN FROM SOUTHWEST LOOKING ACROSS MOODY STREET DAM WITH FLOOD GATES.
- MA-54-6 FIRST WING OF MILL LOOKING EAST. HIP-ROOF PORTION OF LOW WHITE BUILDING TO LEFT IS CA. 1820 "COUNTING HOUSE."
- MA-54-7 FIRST WING OF MILL LOOKING EAST WITH SURVIVING PORTION OF HEADRACE IN CENTER-LEFT FOREGROUND. BUILDING AT EXTREME RIGHT IS THE SITE FROM WHICH PHOTOGRAPHS #1 AND #2 WERE TAKEN.
- MA-54-8 FIRST WING OF MILL LOOKING SOUTHEAST. DATESTONE BELOW TOP ROW OF WINDOWS AT END ON EXTREME RIGHT READS 1813, WHICH IS THE FOUNDING DATE OF THE CORPORATION, NOTE DATE OF THE FIRST MILL (1814). TOWER AT RIGHT CENTER IS A STAIR/ELEVATOR TOWER ERECTED CA. 1891 AT SAME TIME THE NEW TOP FLOOR WAS PUT ON. CRENELATED OCTAGONAL TOWER AT LEFT IS THE STAIR TOWER FOR THE 1852 WING.
- MA-54-9 LOOKING SOUTHEAST, WITH CA. 1891 STAIR/ELEVATOR TOWER RIGHT AND 1852 STAIR TOWER CENTER. THREE STORY BUILDING WITH STACK IN BACKGROUND IS 1873 PICKER HOUSE.

- MA-54-10 JUNCTURE OF 1852 WING (RIGHT) AND 1873 WING (LEFT). NOTE DISCONTINUITY OF FACADES. (SEE PHOTO # 57 FOR INTERIOR TREATMENT AT JUNCTURE) TOP FLOOR OF 1852 WING ADDED IN LATE 1870s.
- MA-54-11 BRIDGE BETWEEN 1880 WING STAIRTOWER (LEFT) AND 1873 PICKERHOUSE RIGHT. LOWER STORIES OF 1852 WING CAN BE SEEN UNDER BRIDGE. PICKERHOUSE WAS ORIGINALLY TWO STORIES HIGH, WITH THIRD STORY ADDED SOMETIME BETWEEN 1852 AND THE TURN OF THE CENTURY.
- MA-54-12 LOOKING SOUTHEAST AT END OF 1880 ADDITION TO 1873 WING.
- MA-54-13 1880 ADDITION TO 1873 WING LOOKING SOUTH. STAIR/ELEVATOR TOWER CENTER LEFT HAS A DATESTONE 1879 BUT APPEARS INTEGRAL WITH PORTION OF WING DATED 1880. BRIDGE FROM RAILROAD SPUR TRESTLE TO TOWER WAS REMOVED DURING REHABILITATION IN 1980.
- MA-54-14 LOOKING SOUTH WITH 1873 WING TO RIGHT AT POWER PLANT. THE 1901 ENGINE HOUSE IS AT CENTER. GENERATOR HOUSE WITH CLERESTORY, ONLY PARTIALLY ABOVE GRADE AT LOWER RIGHT (DEMOLISHED DURING REHABILITATION). 1911 BOILERHOUSE AND STACK LEFT AND CENTER. NOTE THAT, ALTHOUGH FACADE OF BOILER HOUSE APPEARS SYMETRICAL, THE ROOFLINE PITCH IS NOT. THIS ANOMALY RESULTS FROM SHOEHORNING THE NEW BUILDING INTO A CRAMPED SITE.
- MA-54-15 BOILERHOUSE (RIGHT) AND 1873 WING (LEFT) LOOKING TO THE NORTHWEST, WITH WATERTOWN BRANCH RAILROAD AND SPUR TO MILLS AT LOWER CENTER/RIGHT. NOTE HOW THE SPUR CURVES TO FORCE A BEND IN WALL OF THE BOILERHOUSE. THE 1902 STEAM TURBINE IS VISIBLE JUST TO THE LOWER LEFT OF THE STACK.
- MA-54-16 TAILRACE ARCH FROM 1814 MILL BROKEN THROUGH DURING EXCAVATION FOR A SURFACE WATER RUNOFF POLLUTION TRAP, SUBSEQUENTLY FILLED.
- MA-54-17 INTERIOR OF 1814 MILL TAILRACE WITH LEVEL OF WATER BELOW DAM EVIDENT. WALL DIMLY VISIBLE AT REAR IS BRICKED UP ARCH IN FOUNDATION WALL OF THE MILL.
- MA-54-18 EXIT ARCH OF 1853 WING TAILRACE, IN RUBBLE RETAINING WALL ALONG BANK OF THE RIVER, LOOKING NORTHWEST.
- MA-54-19 WHEELPIT AREA OF 1814 MILL WHERE JACOB PERKINS BREASTWHEEL WAS INSTALLED AND CONTROLLED BY PAUL MOODY FLYBALL GOVERNOR, LOOKING NORTH, WITH WEST (UPSTREAM) WALL AT LEFT. EXTRA HEAVY LONGITUDINAL BEAMS ORIGINALLY SPANNED WHEELPIT AREA WITHOUT INTERNAL SUPPORTS (METAL COLUMNS IN PHOTO ARE A RECENT ADDITION). EVIDENCE OF HEADRACE ENTRANCE ARCH HAS BEEN OBLITERATED BY CONCRETE RETAINING WALL AT REAR.

- MA-54-20      WHEELPIT AREA LOOKING SOUTHWEST, WITH TAILRACE ENTRANCE ARCH BELOW SLAB, IN FOUNDATION WALL AT LEFT; ANOTHER VIEW OF THE LONGITUDINAL BEAMS SPANNING WHEELPIT.
- MA-54-21      NON-SLOW BURN CONSTRUCTION DETAIL, SECOND FLOOR OF 1816 MILL LOOKING WEST-SOUTHWEST; MOST FLOORS IN THE 1814 AND 1816 MILLS HAD ORIGINAL FLOORING REPLACED WITH SLOW BURN CONSTRUCTION.
- MA-54-22      DETAIL OF SLOW BURN CONSTRUCTION IN 1852 WING.
- MA-54-23      GROUND FLOOR VIEW OF NORTH FOUNDATION WALL AT JUNCTURE OF 1814 MILL AND 1843 CONNECTOR, WITH DOOR LEADING TO 1891 STAIR/ELEVATOR TOWER.
- MA-54-24      GROUND FLOOR VIEW LOOKING EAST ALONG SOUTH WALL OF 1843 CONNECTOR; METAL COLUMNS ARE RECENT ADDITION.
- MA-54-25      GROUND FLOOR VIEW LOOKING EAST ALONG NORTH WALL OF 1843 CONNECTOR; NOTE TOPS OF HEADRACE ENTRANCE ARCHES VISIBLE ABOVE CONCRETE RETAINING WALL.
- MA-54-26      GROUND FLOOR VIEW LOOKING WEST FROM WEST END OF 1816 MILL, SHOWING AT TOP THE MASSIVE TRANSVERSE BEAM INSTALLED WHEN 1843 CONNECTOR WAS BUILT AND WEST FOUNDATION WALL OF 1816 MILL REMOVED. HEADRACE ENTRANCE ARCH VISIBLE AT FAR RIGHT.
- MA-54-27      GENERAL VIEW OF TYPICAL ROOMS IN FIRST WING (SECOND FLOOR); NOTE SLOW BURN CONSTRUCTION AND SINGLE ROW OF SOUTHERN PINE COLUMNS.
- MA-54-28      GENERAL VIEW OF TYPICAL ROOMS IN FIRST WING (SECOND FLOOR); NOTE SLOW BURN CONSTRUCTION AND SINGLE ROW OF SOUTHERN PINE COLUMNS.
- MA-54-29      GENERAL VIEW OF TYPICAL ROOMS IN FIRST WING (SECOND FLOOR); NOTE SLOW BURN CONSTRUCTION AND SINGLE ROW OF SOUTHERN PINE COLUMNS.
- MA-54-30      GENERAL VIEW OF TYPICAL ROOMS IN FIRST WING (SECOND FLOOR); NOTE SLOW BURN CONSTRUCTION AND SINGLE ROW OF SOUTHERN PINE COLUMNS.
- MA-54-31      VIEW LOOKING EAST OF THE THIRD FLOOR OF 1816 MILL.
- MA-54-32      VIEW LOOKING WEST OF THE THIRD FLOOR OF 1816 MILL.
- MA-54-33      INTERIOR OF 1891 STAIR/ELEVATOR TOWER, STAIR SIDE LOOKING NORTH, THRID FLOOR.
- MA-54-34      INTERIOR OF 1891 STAIR/ELEVATOR TOWER, ELEVATOR SIDE LOOKING SOUTH, THIRD FLOOR.

- MA-54-35 1891 TOP FLOOR OF 1814 MILL LOOKING WEST; NOTE HIGHER CEILING, VERY SLIGHTLY PITCHED ROOF, CAST IRON COLUMNS.
- MA-54-36 1891 TOP FLOOR OF 1814 MILL LOOKING NORTH AT ENTRANCE TO STAIR/ELEVATOR TOWER.
- MA-54-37 1891 TOP FLOOR OF 1814 MILL LOOKING EAST.
- MA-54-38 1891 TOP FLOOR OF 1843 CONNECTOR LOOKING EAST.
- MA-54-39 1891 TOP FLOOR OF 1843 CONNECTOR LOOKING WEST.
- MA-54-40 1891 TOP FLOOR OF 1816 MILL LOOKING WEST.
- MA-54-41 1891 TOP FLOOR OF 1816 MILL LOOKING EAST ALONG NORTH WALL.
- MA-54-42 1891 TOP FLOOR OF 1816 MILL LOOKING EAST ALONG SOUTH WALL; INTERNAL ELEVATOR HOUSING AND MECHANISM AT REAR.
- MA-54-43 GROUND FLOOR OF 1852 WING LOOKING WEST AT JUNCTURE OF 1852 WING AND 1816 MILL. MOST WALLS IN BACKGROUND ARE PARALLEL TO EAST END WALL OF 1816 MILL; CEILING PLANKS ARE AT 90° TO THAT WALL. CEILING BEAMS, HOWEVER, ARE TRANSVERSE TO THE 1852 WING. NOTE ALSO THE ANGLED STRUCTURE OF THE BASE OF THE NEW 1852 STAIR TOWER.
- MA-54-44 1852 STAIRTOWER LOOKING UP AT ROOF. THE TRIANGLE OF VERTICAL WALL AT LOWER LEFT VISIBLE ABOVE THE BANNISTER IS THE TOP OF THE NORTH WALL OF THIS WING. NOTE THAT THE TOWER IS ONLY A TRUE OCTAGON ABOVE THIS POINT. THE ROOF IS 20TH-CENTURY DECKING WHICH REPLACED AN EARLIER CUPOLA WITH BELL.
- MA-54-45 GROUND FLOOR OF 1852 WING LOOKING WEST. COLUMNS IN RIGHT FOREGROUND ORIENTED 90° TO NEW WING; COLUMNS IN BACKGROUND ORIENTED 90° TO EARLIER 1814-16-43 WING.
- MA-54-46 GROUND FLOOR OF 1852 WING LOOKING EAST.
- MA-54-47 GROUND FLOOR OF 1852 WING LOOKING EAST. NOTE THAT THE CRATE IN LEFT CENTER FOREGROUND IS VISIBLE ALSO IN PHOTO #46 IN CENTER MIDDLEGROUND.
- MA-54-48 GROUND FLOOR OF 1852 WING LOOKING WEST. NOTE THAT THERE ARE FIVE ROWS OF COLUMNS ON THIS FLOOR. ROWS 1, 3, AND 5 ARE CAST IRON. ROWS 2 AND 4 ARE SOUTHERN PINE. FLOORS ABOVE HAVE ONLY 2 ROWS OF CAST IRON COLUMNS.

- MA-54-49 TOP FLOOR OF 1852 WING LOOKING EAST. FLOOR COVERING INDICATES ANGLE OF INTERSECTION BETWEEN THIS AND THE EARLIER WING. NOTE ALSO CHANGE IN ORIENTATION OF COLUMNS AND HANGING LIGHT FIXTURE. BRIGHT AREA AT CEILING IN MIDDLE DISTANCE INDICATES SKYLIGHT. THIS FLOOR ADDED CA. 1880.
- MA-54-50 TOP FLOOR OF 1852 WING LOOKING WEST. BRIGHT AREA AT CEILING RIGHT CENTER IS SKYLIGHT. THIS FLOOR WAS ADDED CA. 1880.
- MA-54-51 2ND FLOOR OF 1873 WING LOOKING TOWARD SOUTHWEST CORNER. NOTE COLUMNS FLUSH WITH BEARING WALL.
- MA-54-52 DETAIL OF CEILING SUPPORT IN 1873 WING, WITH COLUMNS FLUSH AGAINST BEARING WALL, 2ND FLOOR EAST.
- MA-54-53 2ND FLOOR OF 1873-1880 WING LOOKING NORTH, EAST CENTRAL AISLE.
- MA-54-54 2ND FLOOR OF 1873-80 WING LOOKING NORTH, WEST SIDE OF BUILDING.
- MA-54-55 TOP (4TH) FLOOR OF 1873-80 WING LOOKING NORTH, WEST SIDE. NOTE SECTION, LEFT SIDE, MIDDLEGROUND, WHERE SMALL HIGH WINDOWS INDICATE POINT AT WHICH 1852 WING JOINS THIS WING.
- MA-54-56 DETAIL OF WEST WALL OF 1873-80 WING WHERE 1852 WING JOINS, BELOW HIGH WINDOWS.
- MA-54-57 1873-80 WING, EAST SIDE LOOKING NORTH.
- MA-54-58 WEST STAIR TOWER 1873-1880 WING LOOKING WEST.
- MA-54-59 3RD FLOOR 1873 WING LOOKING SOUTH.
- MA-54-60 1901 STEAM ENGINE HOUSE LOOKING WEST. VISIBLE THROUGH HIGH ARCHED PASSAGEWAYS AT LEFT (FORMER WINDOWS) IS 1902 STEAM TURBINE.
- MA-54-61 1901 STEAM ENGINE HOUSE LOOKING EAST. WINDOWS AND CENTRAL DOOR WERE BRICKED IN WHEN 1911 BOILER HOUSE WAS BUILT ADJACENT.
- MA-54-62 1901 STEAM ENGINE HOUSE LOOKING SOUTH THROUH TO 1902 STEAM TURBINE ROOM COLUMNS SUPPORT TRUE EXTERIOR WEST WALL OF THE BUILDING. PORTION TO RIGHT OF COLUMNS IS A LOWER CONNECTOR BETWEEN THE ENGINE HOUSE AND THE 1873 WING.
- MA-54-63 INTERIOR OF 1902 STEAM ENGINE HOUSE LOOKING NORTHEAST THROUGH TO 1901 STEAM ENGINE HOUSE.
- MA-54-64 INTERIOR OF 1902 STEAM ENGINE TURBINE HOUSE LOOKING WEST.

- MA-54-65 INTERIOR OF 1902 GENERATOR HOUSE. BASEMENT WALL OF 1901 STEAM ENGINE HOUSE VISIBLE AT REAR. BASEMENT WALL OF 1873 WING AT RIGHT. OPENINGS MADE FOR MECHANICALLY TRANSMITTING POWER FROM STEAM ENGINES TO GENERATORS HAVE BEEN BRICKED UP.
- MA-54-66 INTERIOR OF 1902 GENERATOR HOUSE. EAST EXTERIOR WALL IS AT LEFT. CLERESTORY AT TOP IS ALSO SEEN FROM THE OUTSIDE IN PHOTO # 14.
- MA-54-67 1911 BOILER HOUSE LOOKING SOUTH. AREA FRAMED BY HIGH WINDOWS ON RIGHT IS FORMER EAST EXTERIOR WALL OF 1901 STEAM ENGINE HOUSE. BELOW RIGHT IS A TANK FOR HEATING OIL ENCLOSED IN CEMENT BLOCK CA. 1945.
- MA-54-68 1911 BOILER HOUSE LOOKING SOUTH. BOILERS ARE CA. 1945. SPACE HEATING BOILER S REPLACED ORIGINAL 8 VERTICAL HIGH PRESSURE STEAM POWER BOILERS. THE ORIGINAL SHEET METAL FLUE IS IN THE UPPER CENTER.
- MA-54-69 1911 BOILER HOUSE LOOKING SOUTH SOUTHEAST. EAST WALL AT LEFT HAS WINDOWS BRICKED UP, PRESUMABLY BECAUSE GLASS WAS TOO VULNERABLE TO VANDALISM ON SIDE ADJACENT TO RAILWAY TRESTLE.
- MA-54-70 1911 BOILER HOUSE LOOKING NORTH. DOOR IN NORTH WALL LEADS TO COALYARD.